

# City of Durham





**Architect:** 

Roughton Nickelson De Luca Architects, PA

Durham, North Carolina

Owner:
City of Durham
Durham, North Carolina

PM&E Engineer:

Edmondson Engineers, PA

Durham, North Carolina

CONSTRUCTION DRAWINGS

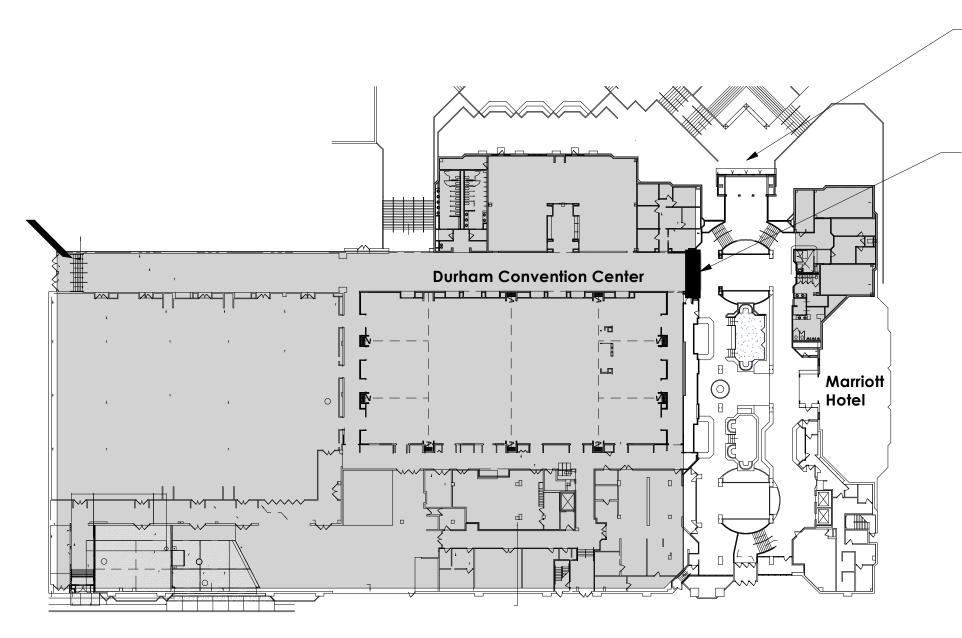
G 101 Cover Sheet
G 102 Building Code Summary
G 103 Life Safety Plan
A 201 Alteration Plans
A 202 Structural Details
A 203 Glass Details

Structural Engineer:

Gardner & McDaniel, PA

Durham, North Carolina





- 301 West Morgan Street Entrance Pre-Function Corridor Project Area Architects, CHAPING CH

Pre-Function Doors

Durham Convention Center 301 W. Morgan Street Durham, NC

REVISIONS

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JOB NUMBER: 1204
DRAWN: EGP
CHECKED: CJN
DATE: 3/26/13

Cover Sheet

G 101

Address: <u>Durh</u>	am, North Caroline	<u> </u>	Zip Code 27	769 <u>5</u>	
Proposed Use: Busin	ess (no change)				
Owner/Authorized Ag	ent: <u>Doreen San</u>	felici Phone #: (919	560-4197-	E-Mail: Doreen.Sar	nfelici@durhamnc.gov
Owned By:	$\boxtimes$	City/County	☐ Privo	ate	☐ State
Code Enforcement	Jurisdiction: 🏻	City_Durham	☐ Cou	inty	☐ State
LEAD DESIGN PRO	FESSIONAL: C	narles Nickelson, Al	A LEED A	P - Principal RI	ND Architects, PA
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	RND Architects	Charles Nickelson, AIA	7835	(919) 490-1266	charles@RNDarchitects.com
Civil	N/A	N/A	N/A	N/A	N/A
Electrical	Edmondson Engineers	Dennis Hayes.PE	28864	(919) 544-1936	dennis.hayes@edmondsonengines
Fire Alarm	N/A	N/A	N/A	N/A	N/A
Plumbing	N/A	N/A	N/A	N/A	N/A
Mechanical	N/A	N/A	N/A	N/A	N/A
Sprinkler- Standpipe	N/A	N/A	N/A	N/A	N/A
Structural	N/A	N/A	N/A	N/A	N/A
Retaining Walls >5' high	N/A	N/A	N/A	N/A	N/A

2012 EDITION OF	NC CODE FOR:	☐ New Construction	Additi	on 🗌 Upfit
EXISTING: Red	construction		Repair	r Renovation
CONSTRUCTED:	(date) 1988	ORIGINAL USE(S)	(Ch. 3):	<u>business</u>
RENOVATED:	(date) 2008	CURRENT USE(S)	(Ch. 3):	<u>business</u>
		PROPOSED USE(S)	(Ch. 3):	<u>business</u>

					(-) (		
BASIC BUILDIN	IG DATA						
Construction 1	Гуре:	☐ I-A	☐ II-A		☐ III-A	□ IV	□ V-A
(check all tha	it apply)	⊠ I-B	☐ II-B		☐ III-B		☐ V-B
Sprinklers:	☐ No	□ Partia	I ☐ Yes ☐ NFP.	A 13	☐ NFPA 13R	□ NFPA 13	BD
Standpipes:	⊠ No	☐ Yes	Class 🗌 I		□ III □ W	/et 🗌 Dry	
Fire District:	⊠ No	Yes (P	rimary)	Flood	Hazard Area:	⊠ No □	Yes
Building Height	: (feet)	143'					
Gross Building	Area: \$	EE SUMM	ARY ON LIFE	SAFETY	PLAN SHEET A	103	

New (sq ft) Reno (sq ft) N/A N/A 10,641

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#### LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: \_\_\_\_\_A103\_

Fire and/or smoke rated wall locations (Chapter 7) NO CHANGE Assumed and real property line locations **NO CHANGE** 

Exterior wall opening area with respect to distance to assumed property lines (705.8) NO CHANGE

Existing structures within 30' of the proposed building **NO CHANGE** Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1) NO CHANGE

Occupant loads for each area NO CHANGE Exit access travel distances (1016) NO CHANGE

Common path of travel distances (1014.3 & 1028.8) SEE LIFE SAFETY PLAN

Dead end lengths (1018.4) N/A

☐ Clear exit widths for each exit door NO CHANGE Maximum calculated occupant load capacity each exit door can accommodate based on egress

width (1005.1) NO CHANGE

Actual occupant load for each exit door NO CHANGE A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided

for purposes of occupancy separation N/A

Location of doors with panic hardware (1008.1.10) N/A - NONE PROPOSED ALL EXISTING ■ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7) N/A

Location of doors with electromagnetic egress locks (1008.1.9.8) N/A

Location of doors equipped with hold-open devices N/A

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Location of emergency escape windows (1029) N/A ☐ The square footage of each fire area (902) N/A

☐ The square footage of each smoke compartment (407.4) N/A Note any code exceptions or table notes that may have been utilized regarding the items above

### **ACCESSIBLE DWELLING UNITS**

Total	Accessible	Accessible	Type A Units	TYPE A UNITS	Type B Units	Type B Units	TOTAL
Units	Units	Units	Required	PROVIDED	Required	Provided	ACCESSIBLE UNITS
	REQUIRED	PROVIDED					PROVIDED

#### **ACCESSIBLE PARKING** (SECTION 1106) - N/A

LOT OR PARKING AREA		TOTAL # OF PARKING SPACES  REQUIRED PROVIDED		# OF AC	total # accessible			
				5' ACCESS AISLE	132" ACCESS 8' ACCESS AISLE AISLE		PROVIDED	
	ACC	CESSIBLE PAR	KING NOT A	PPLICABLE TO	INTERIOR RENO	VATION PROJ	IECT	
TOTAL								

ALLOWABLE AREA

Occupancy: Business Educational 🗌 Factory F-1 Moderate F-2 Low Mercantile Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Accessory Occupancies: (Durham Convention – Ball Rooms Assembly / Hotel=Residential) Assembly  $\square$  A-1  $\boxtimes$  A-2  $\square$  A-3  $\square$  A-4  $\square$  A-5

Business Educational 🗌 

Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Incidental Uses (Table 508.2.5): N/A

☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower Refrigerant machine room

☐ Hydrogen cutoff rooms, not classified as Group H

Residential  $\square$  R-1  $\square$  R-2  $\square$  R-3  $\square$  R-4

Mercantile  $\square$ 

Incinerator rooms Paint shops, not classified as Group H, located in occupancies other than Group F

Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy Laundry rooms over 100 square feet

Group I-3 cells equipped with padded surfaces Group I-2 waste and linen collection rooms

☐ Waste and linen collection rooms over 100 square feet Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithiumion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies

Rooms containing fire pumps Group I-2 storage rooms over 100 square feet

☐ Group I-2 commercial kitchens Group I-2 laundries equal to or less than 100 square feet Group I-2 rooms or spaces that contain fuel-fired heating equipment

 Special Uses:
 N/A
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411

 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423

 ☐ 425 ☐ 426 ☐ 427

**Special Provisions:** N/A ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8

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STRUCTURAL DESIGN

**DESIGN LOADS:** Importance Factors: Wind (Iw) 1.0 Snow (Is) 1.0 Seismic (I<sub>E</sub>) 1.0 INTERIOR RENOVATION PROJECT DOES NOT ALTER EXISTING Roof Live Loads: -n/a- psf STRUCTUAL SYSTEM OF BUILDING Mezzanine -n/a- psf -125- psf **Ground Snow Load:** 15 psf Basic Wind Speed 95 mph (ASCE-7) Wind Load:

Exposure Category B Wind Base Shears (for MWFRS) Vx = n/aSEISMIC DESIGN CATEGORY:  $\square$  A  $\boxtimes$  B  $\square$  C  $\square$  D

Provide the following Seismic Design Parameters Occupancy Category (Table 1604.5) Spectral Response Acceleration

Site Classification (Table 1613.5.2)

Data Source: | Field Test | Presumptive | Historical Data Basic structural system (check one) Dual w/Special Moment Frame

☐ Bearing Wall ☐ Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum Seismic base shear:  $V_X = n/a$   $V_Y = n/a$ ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic Analysis Procedure: Architectural, Mechanical, Components anchored? ☐ Yes 🔲 No

LATERAL DESIGN CONTROL: Earthquake 🗌 Wind 🛛 SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) n/a psf Presumptive Bearing capacity 2500 psf Pile size, type, and capacity n/a

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☐ Yes 
☐ No SPECIAL INSPECTIONS REQUIRED:

#### PLUMBING FIXTURE REQUIREMENTS\*\* (TABLE 2902.1) PER NC PLUMBING CODE 403.9.5.5 -FIXTURES PROVIDED IN BUILDING

USE		WATERCLOSETS		URINALS LAV		TORIES	SHOWERS/	DRINKING FOUNTAINS	
		MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	Accessible
SPACE	EXISTING								
	NEW								
	REQUIRED								
PROJECT DOES NOT INCREASE OCCUPANT LOAD ENOUGH TO INCREASE FIXTURE COUNTS									

#### SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

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FIRE PROTECTION REQUIREMENTS

PROVIDED RATED SHEET # PENETRATION DISTANCE cluding columns, earing Walls North West South Interior Nonbearing Walls and artitions North West South INTERIOR ALTERATION DOES NOT Interior walls ar Floor Construction Including supporting oof Construction Including supporting aft Enclosures - Exit haft Enclosures - Othe orridor Separation arty/Fire Wall cidental Use

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: RENOVATION DOES NOT PROVIDE Exit Signs: Yes PANIC HARDWARE IN NEW ROOM No ⊠ Yes Fire Alarm: Smoke Detection Systems: 🛛 No 🗌 Yes 🗌 Partial \_\_\_\_ Panic Hardware: No ∑ Yes

INTERIOR RENOVATION PROJECT

DOES NOT ALTER EXISTING

MECHANICAL SYSTEM OF

BUILDING

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\* Indicate section number permitting reduction

MECHANICAL SUMMARY

72°F

75°F

Thermal Zone winter dry bulb: summer dry bulb:

Building heating load: \_

Unitary

Chiller

**ELECTRICAL SYSTEM AND EQUIPMENT** 

Method of Compliance:

ASHRAE 90.1: Prescriptive

Building cooling load: \_\_\_\_\_

**Mechanical Spacing Conditioning System** 

cooling efficiency: \_\_

List equipment efficiencies:

Energy Code: Prescriptive Performance

total exterior wattage specified vs. allowed

☐ 506.2.1 More Efficient Mechanical Equipment

506.2.3 Energy Recovery Ventilation Systems

506.2.4 Higher Efficiency Service Water Heating 506.2.5 On-Site Supply of Renewable Energy

506.2.6 Automatic Daylighting Control Systems

506.2.2 Reduced Lighting Power Density

**Lighting schedule** (each fixture type)

lamp type required in fixture

number of lamps in fixture ballast type used in the fixture

number of ballasts in fixture

total wattage per fixture

**Additional Prescriptive Compliance** 

description of unit: \_\_\_\_\_

heating efficiency: \_\_\_\_\_

size category of unit:

Size category. If oversized, state reason.: \_\_\_\_\_

Size category. If oversized, state reason.: \_\_\_\_\_

**ELECTRICAL SUMMARY** 

total interior wattage specified vs. allowed (whole building or space by space)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

INTERIOR RENOVATION PROJECT Interior design conditions DOES NOT ALTER EXISTING winter dry bulb: THERMAL ENVELOPE OF BUILDING summer dry bulb: relative humidity:

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)

Climate Zone: 3 4 5

Method of Compliance:

Prescriptive

Performance

Performance

Prescriptive

Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly: \_\_\_\_\_

\_\_\_\_

The following data shall be considered minimum and any special attribute required to meet the

energy code shall also be provided. Each Designer shall furnish the required portions of the

(Energy Code)

(Energy Code)

(ASHRAE 90.1)

(ASHRAE 90.1)

cost for the standard reference design vs annual energy cost for the proposed design.

project information for the plan data sheet. If performance method, state the annual energy

Yes Separation: \_\_\_\_ Hr. Exception:

Actual Area of Occupancy B

Allowable Area of Occupancy B

are**a or** 

BUILDING

Mixed Occupancy: N/A 🛛 No

Non-Separated Use (508.3)

exceed 1.

b. Total Building Perimet

c. Ratio (F/P) = \_\_\_

ype of Construction

Building Height in Feet

Buildina Heiaht in Siorie

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**ENERGY REQUIREMENTS:** 

☐ Incidental Use Separation (508.2.5)

Actual Area of Occupancy A

Allowable Area of Occupancy A

This separation is not exempt as a Non-Separated Use (see exceptions).

Separated Use (\$08.4) - See below for area calculations

Frontage area increases from Section 506.2 are computed thus.

d. W = Minimum wight of public way = \_\_\_\_\_(W)

<sup>3</sup> Unlimited area applicable under conditions of Section 507.

area of ar traffic control towers must comply with Table 412.1.2.

<sup>2</sup> The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building  $I_s$  = 200 percent b. Single story building  $I_s$  = 300 percent

e. Percent of frontage increase  $I_f = 100 [F/P - 0.25] \times W/30 =$ 

4 Maximum Juilding Area = total number of stories in the building x E (506.4).

The required type of construction for the building shall be determined by applying the

height and area limitations for each of the applicable occupancies to the entire building.

The most restrictive type of construction, so determined, shall apply to the entire building.

For each story, the area of the occupancy shall be such that the sum of the ratios of the

actual floor area of each use divided by the allowable floor area for each use shall not

a. Perimeter which fronts a public way or open space having 20 feet minimum width =

<sup>5</sup> The maximum area of open parking garages must comply with Table 406.3.5. The maximum

ALLOWABLE HEIGHT

Stories + 1 =

Exterior Walls (each assembly) Description of assembly:

U-Value of total assembly: R-Value of insulation: \_\_\_\_\_ Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient:

Walls below grade (each assembly) Description of assembly:

U-Value of total assembly: \_\_\_\_\_ R-Value of insulation: Floors over unconditioned space (each assembly)

projection factor:

Door R-Values:

Description of assembly: U-Value of total assembly: R-Value of insulation:

Floors slab on grade

Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:

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**Pre-Function** Doors

CERT. NO.

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**Durham Convention Center** 301 W. Moraan Street Durham, NC

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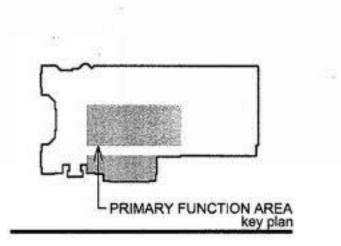
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n part, is prohibited.

**Building Code Summary** 



# **GENERAL LIFE SAFETY NOTES**

- THE BUILDING IS FULLY SPRINKLERED ALLOWING A 300' TRAVEL
  DISTANCE FOR BUSINESS OCCUPANCY AND 250' TRAVEL DISTANCE FOR
  STORAGE (3-1) AND ASSEMBLY (A-3) FER TABLE 1010.1 IN NG 2009
  BUILDING CODE.
- 2. OCCUPANCY IS ASSEMBLY UNLESS OTHERWISE NOTED.
- 3. THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75' IN BUSINESS OCCUPANCY PER SECTION 1014.3 IN NC 2009 BUILDING CODE
- V.I.F. ALL EXISTING FEC LOCATIONS. ALL FEC SHALL BE LOCATED AND MOUNTED IN ACCORDANCE PER NFPA 101 AND LOCAL FIRE CODE OFFICIALS REQUIREMENTS. DISTANCE BETWEEN FEC SHALL NOT EXCEED 75 FEET.
- G.C. TO PROVIDE AND INSTALL ALL BLOCKING IN WALL AS REQUIRED FOR MOUNTING FIRE EXTINGUISHERS.
- G.C. TO COORDINATE INSTALLATION REQUIREMENTS OF EXIT SIGNS, ALL ASSOCIATED HARDWARE, JUNCTION BOXES AND WIRING, AND REQUIRED EXIT DEVICES WITH ELECTRICAL DRAWINGS AND LOCAL INSPECTOR.
- 7. THE PRIMARY FUNCTION AREAS AS DEFINED IN THE 2009 NORTH CAROLINA REHAB CODE WITHIN THE OVERALL SCOPE OF WORK OF THESE DOCUMENTS ARE DEFINED WITHIN BALLROOMS 101A-C, 102, 103, AND 104A-C. FIRE EXTINGUISHER LOCATIONS SHOWN ARE INTENDED FOR THESE PRIMARY FUNCTION AREAS ONLY.
- 8. SEE ELECTRICAL SHEETS FOR EXIT LIGHTING LOCATIONS.

# LEGEND

C ---- C COMMON PATH OF EGRESS TRAVEL

← 0'-0" ← TRAVEL DISTANCE

ACTUAL NUMBER OF PEOPLE EXITING
MAX. CAPACITY OF PEOPLE EXITING

FE A EXISTING FIRE EXTINGUISHER LOCATIONS

(SEE NOTE #7)

FE NEW FIRE EXTINGUISHER LOCATIONS
FIRE EXTINGUISHERS SHALL BE MIN. 10LB 4A:20B:C (MULTI-PURPOSE)

- (SEE NOTE #7.)
- EXISTING 1-HR RATED CONSTRUCTION TO REMAIN

  EXISTING 2-HR RATED CONSTRUCTION TO REMAIN
- EXISTING 3-HR RATED CONSTRUCTION TO REMAI
- EXISTING 3-HR RATED CONSTRUCTION TO REMAIN

  NEW 1-HR RATED CONSTRUCTION (SEE AF-101 FOR

ADDITIONAL INFO.)

Pre-Function Doors

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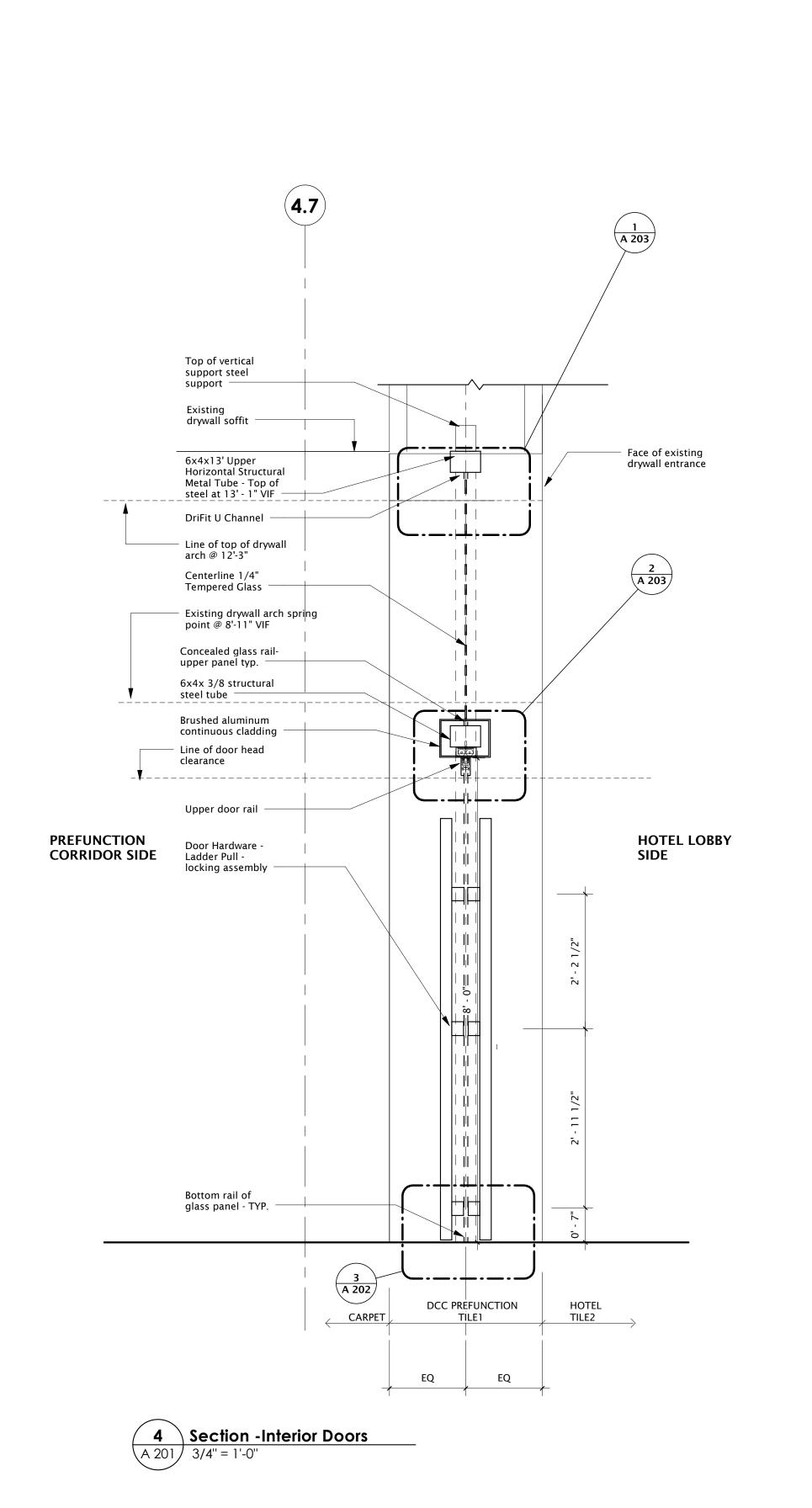
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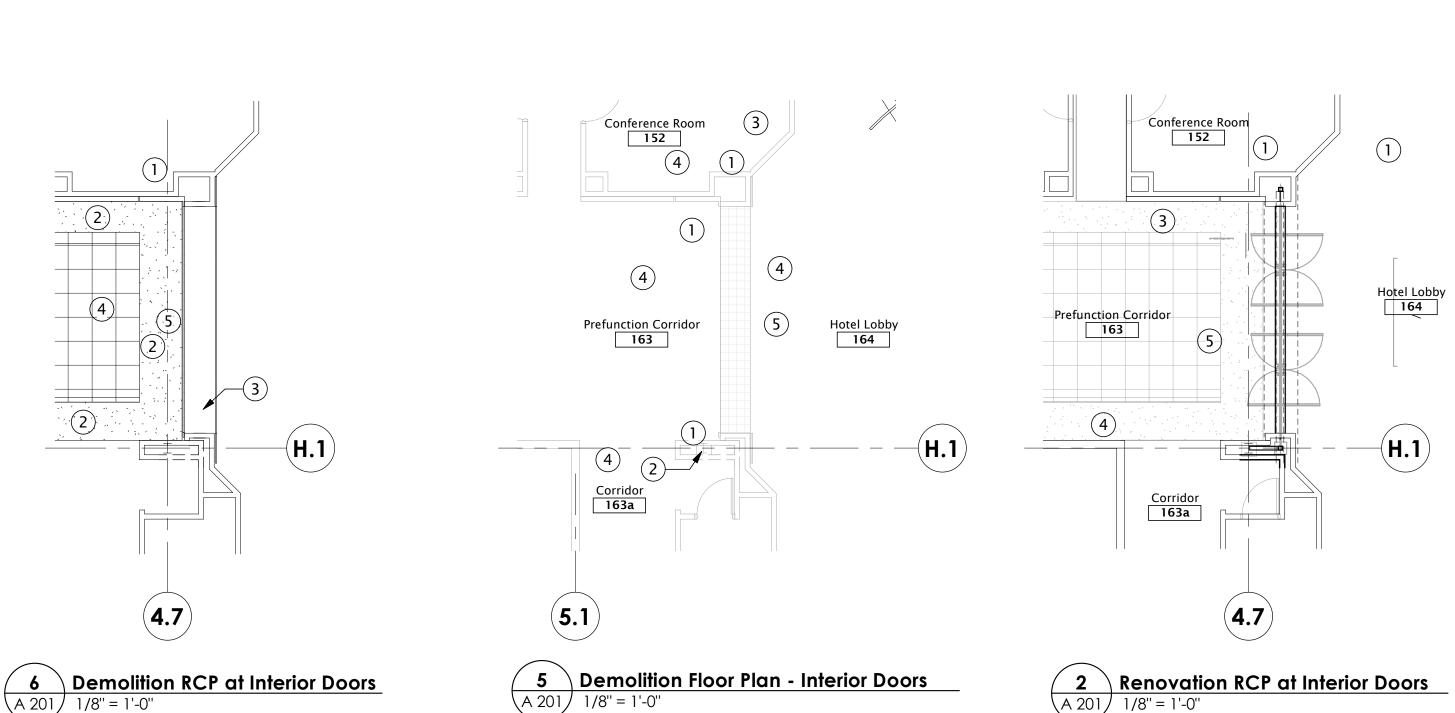
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Life Safety Plan

G 103





DEMOLITION NOTES KEYED TO PLAN

Protect existing; cover furniture or verify temporary location with owner

Carefully remove metal letters, save for re-installation; see 3/A201

To be removed but not limited to:

Remove portion of dry wall to install structure

Existing structural column - Verify in Field

Protect existing finishes in the work area

CEILING DEMOLITION NOTES KEYED TO PLAN

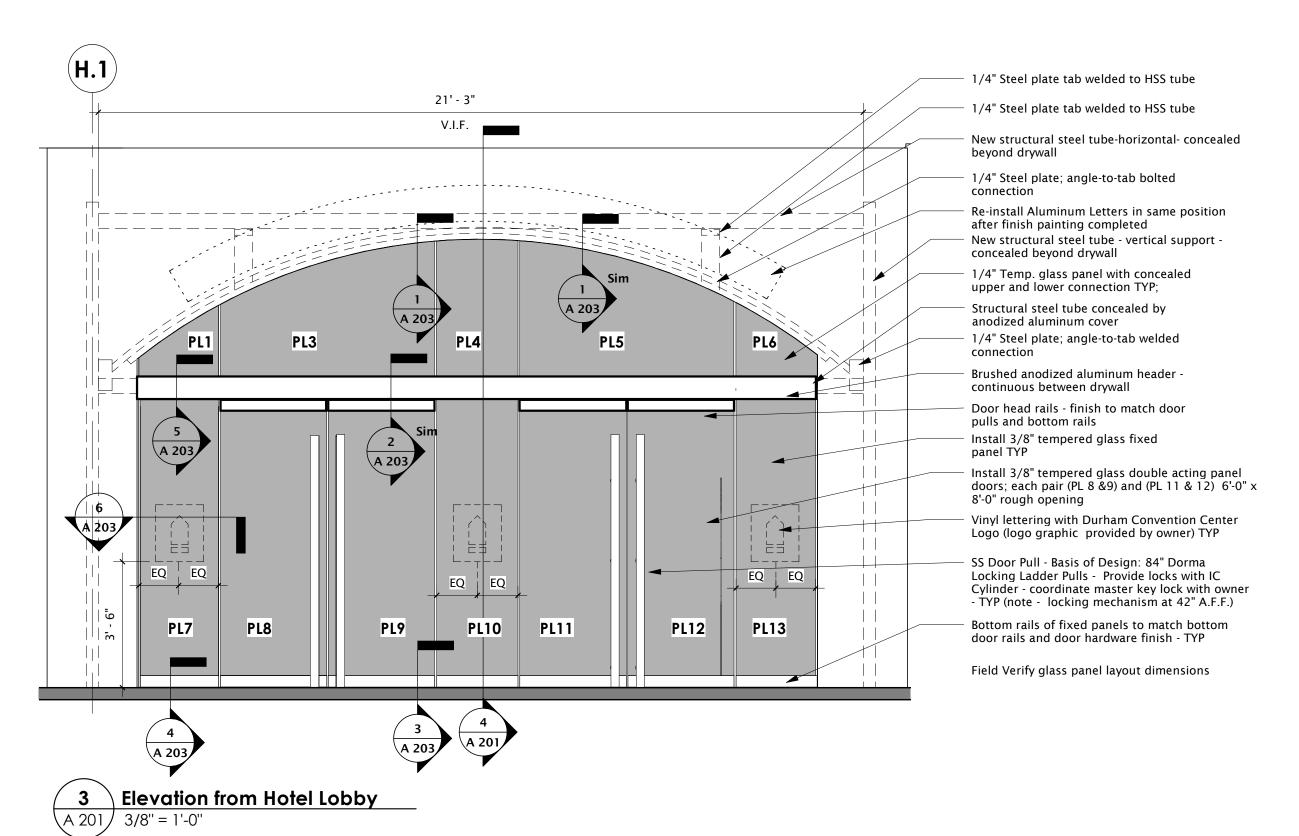
Remove portion of arched drywall soffit to install structure

Existing exit sign; see electrical drawings for demolition item

Remove portion of ACT to install structure; protect for

Existing drywall soffit

Existing ACT and Grid



# RENOVATION NOTES KEYED TO PLAN Install vertical structural support Paint wall SW "Crysanthemum" - verify color with owner/architect prior to painting Paint all drywall of the archway to match existing unless otherwise noted Paint all drywall damaged as part of construction to match exsiting Existing carpet flooring - protect during alteration Existing marble flooring - protect during alteration Existing tile flooring - protect during alteration Install vertical structural support and horizontal supports to existing column

Repair wall and finish to match existing

# LEGEND

CEILING RENOVATION NOTES KEYED TO PLAN

Remove portion of ACT to install structure; protect for

Repair finish on any damaged surface to match existing

Re-install exit sign - see drawing E.1 on Sheet G103

Install exit sign - see drawing E.1 on Sheet G103

re-installation

Rated Wall - 1 Hour	
Existing Partition	
Steel Stud Partition	
CMU Infill/partition	XXXXXXXX
Note Keyed to Plan	
Section Mark	Dwg No
	Sheet No.
Interior Elevation	Sheet No.—(A <sub>101</sub> ) Dwg No.
	Poem name
Room Tag	Room name 101
Wall Tag - See Wall Types	on A2XX
Door Tag - See Door/Fram Schedule on A2XX	101)
Window Tag - See Window	Schedule
on A2XX	
Abbreviations:	
General Contractor	GC
Not in Contract	NIC
Verify in Field	VIF
•	
Acoustical Ceiling Tile	ACT
Gypsum Wall Board	GWB

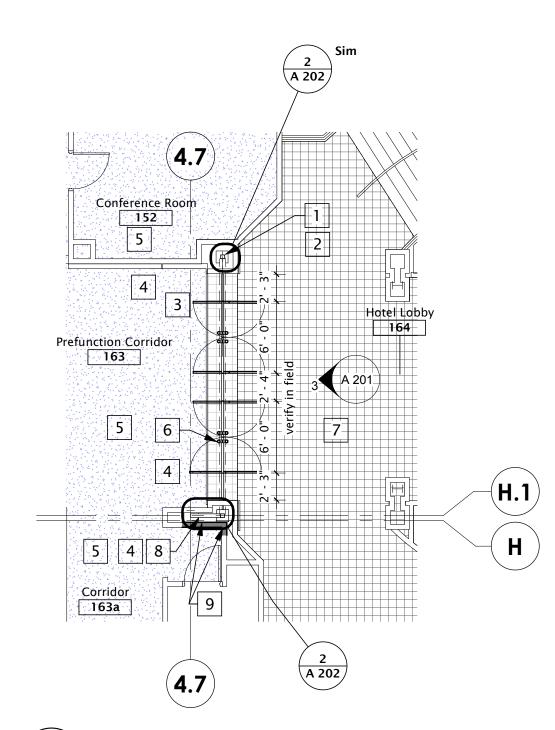
# GENERAL NOTES

1. All work shall be completed in compliance with applicable codes and to the satisfaction of local building inspectors. The Contractor shall be responsible for filing and securing all necessary permits, approvals etc. for all trades.

dimensions.

2. Dimensions at stud walls are to face of stud, unless noted otherwise.3.GC to field verify all dimensions. Notify Architect of any discrepancies between drawings and actual field

4. All fire rated walls and partitions shall be effectively and permanently identified with signs or stenciling. Such identification shall be above the ceiling and in concealed spaces. Suggested wording, 'FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS'.



Renovation Plan - Interior Doors

| A 201 | 1/8" = 1'-0"

Pre-Function Doors

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Durham Convention Center 301 W. Morgan Street

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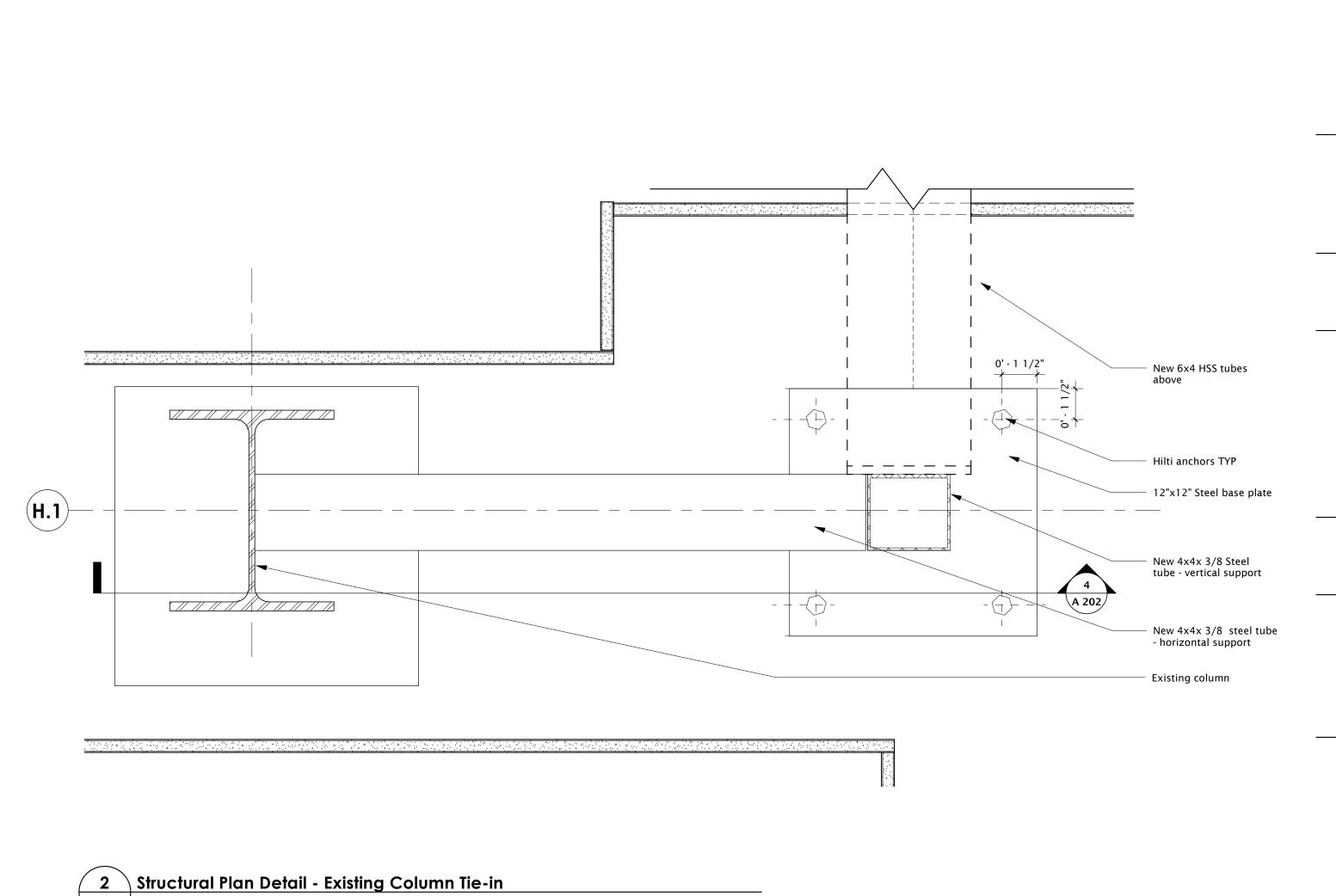
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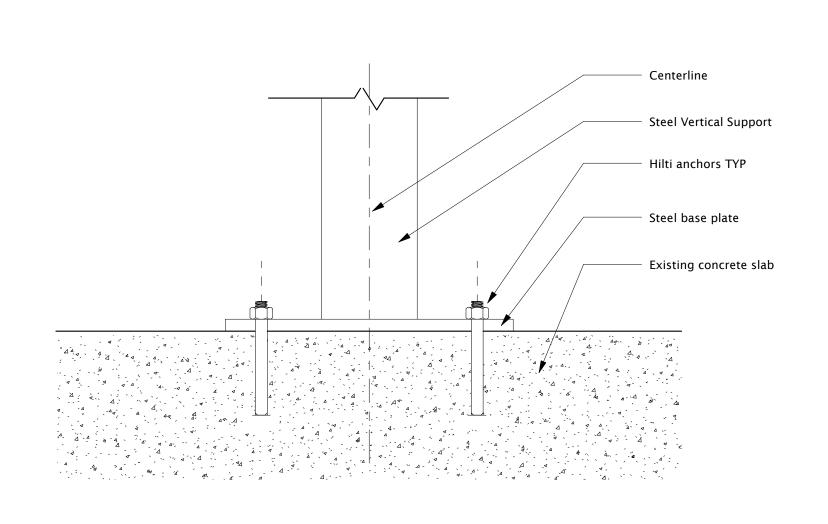
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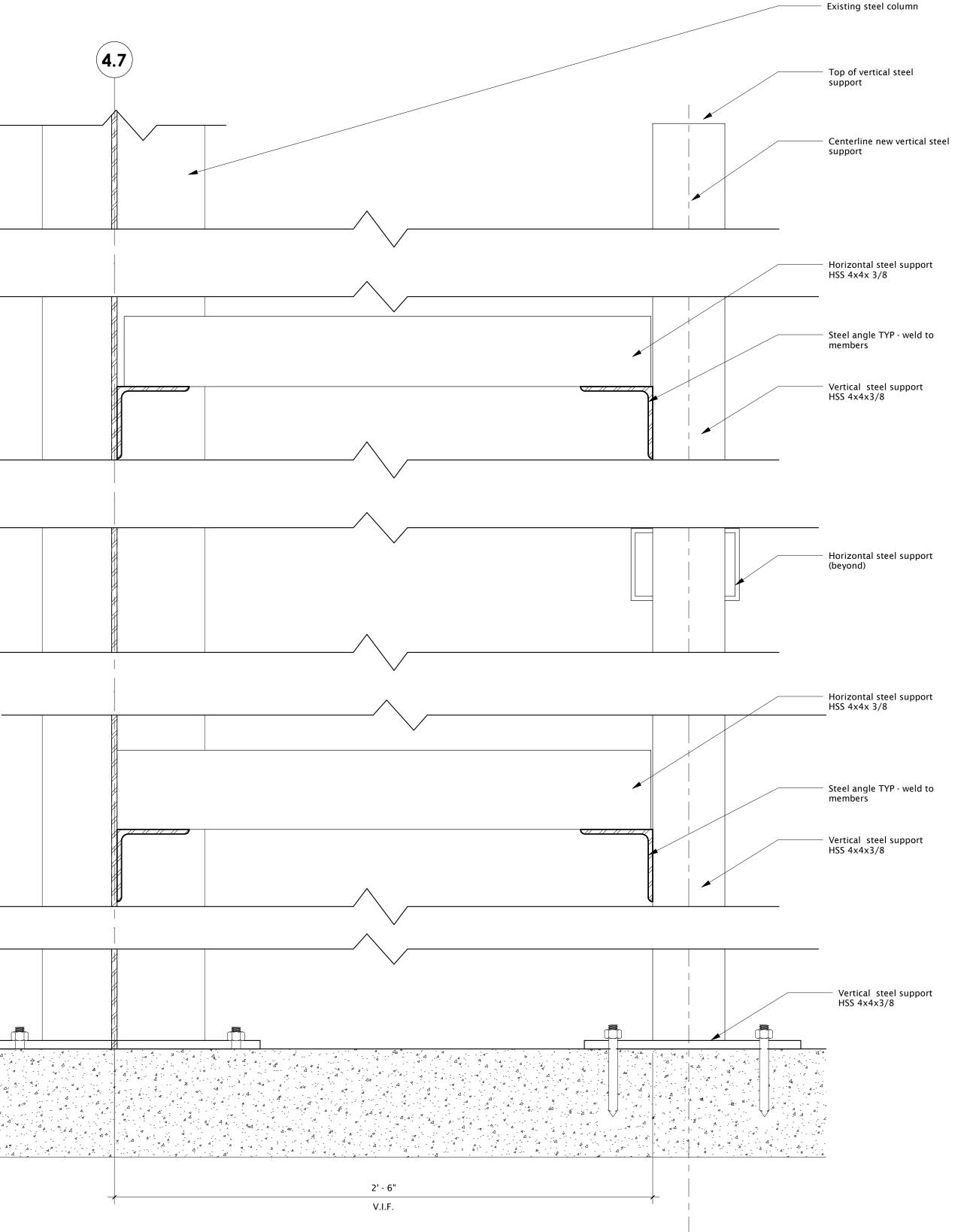
Alteration Plans

A 201









4 Structural Section at Existing Column Tie-In
A 202 3" = 1'-0"

Pre-Function Doors

SON

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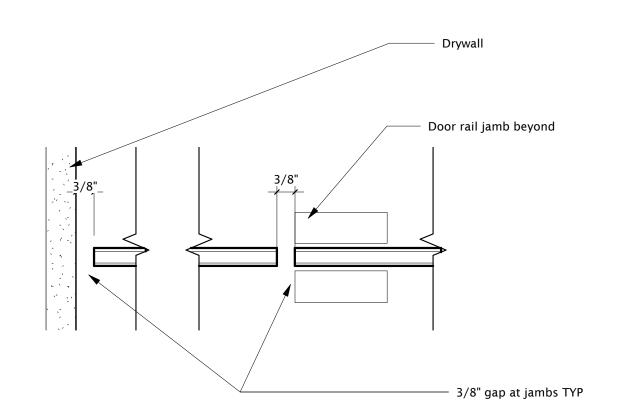
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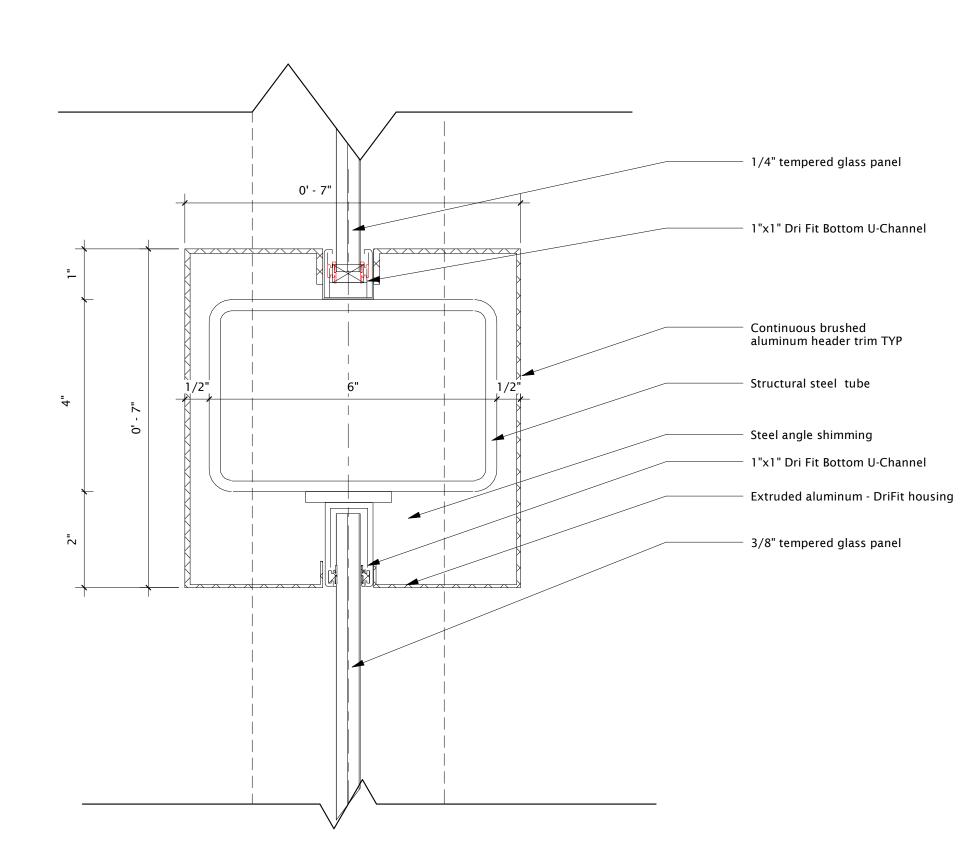
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Structural Details

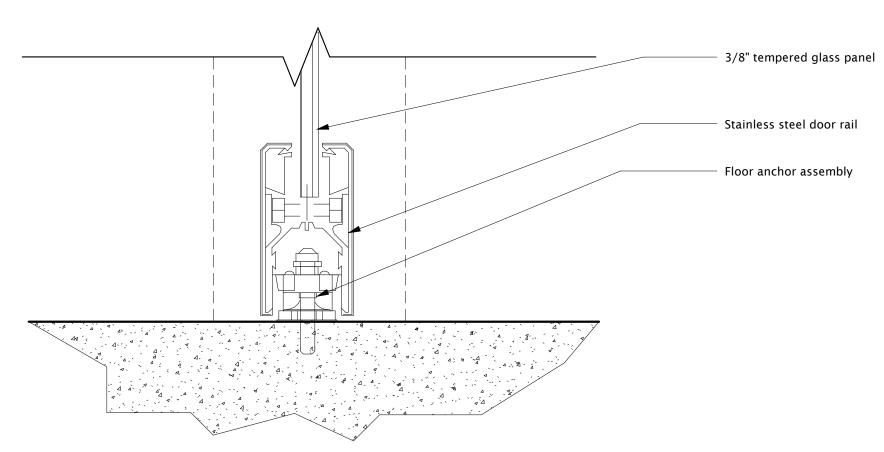
A 202



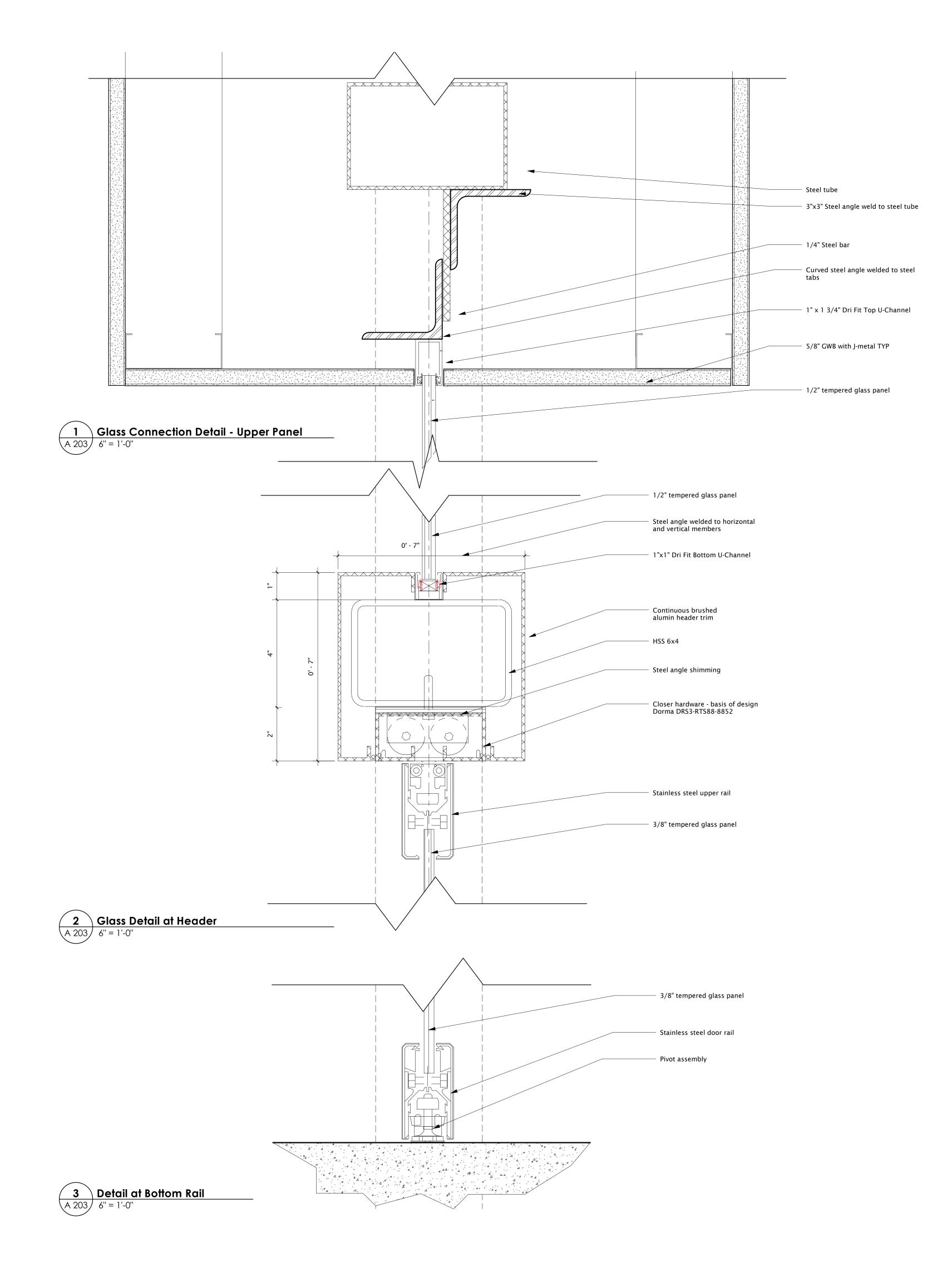
6 Jamb Spacing Detail
A 203 6" = 1'-0"



5 Fixed glass connection detail A 203 6" = 1'-0"



4 Floor Detail at Fixed Panel
A 203 6" = 1'-0"



NICKELSON - DE LUCA

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Architects, PA

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Durham, NC 2770

OHN N.C. THE CAROL IND. C. AROLLING THE C. AROLLING THE CAROL IND. C. AROLLING THE C. C. AROLLING THE C.

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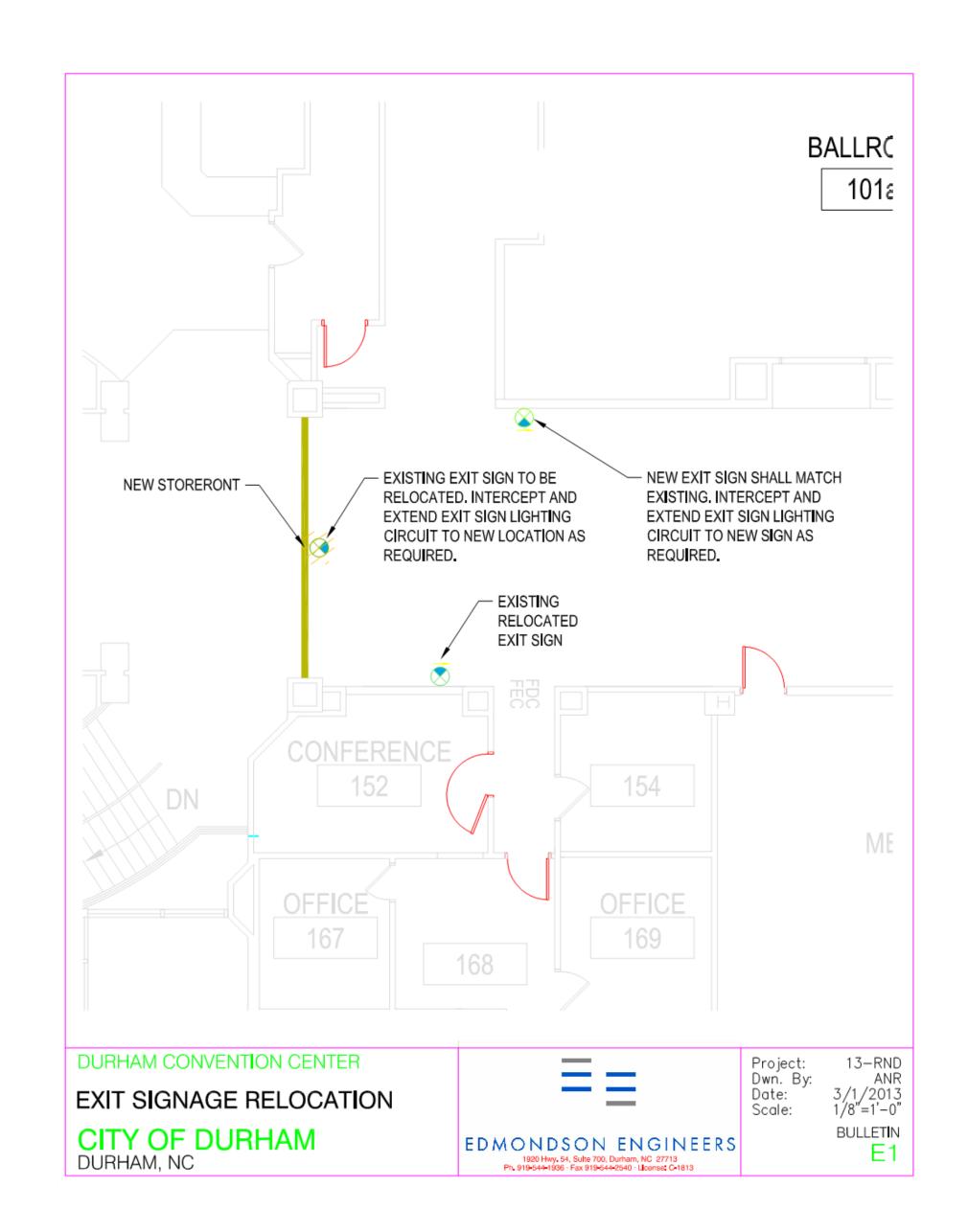
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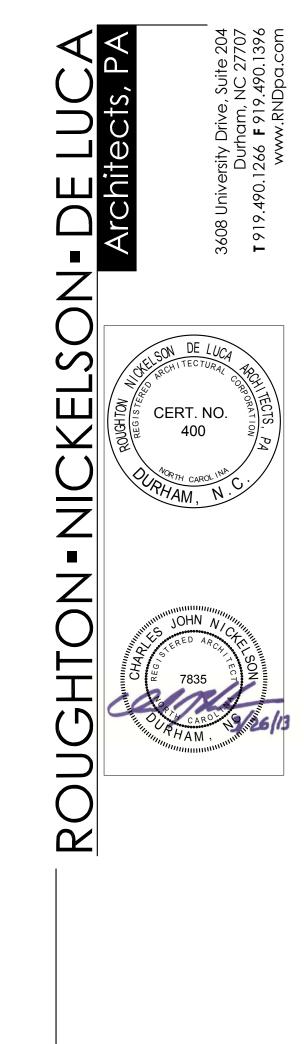
JOB NUMBER: DRAWN: CHECKED:

Glass Details

A 203







Pre-Function Doors

Durham Convention Center 301 W. Morgan Street Durham, NC

REVISIONS

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Electrical

E 204